## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 0349 Sutter Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/10/2020 04/10/2020	David Julian

LM Start		Rating **	Α	Issue No.		3	
LM End		Issue Type +	Ma	Location *			
Category	Earthen L	evee		GPS La	atitude	e/Longitude	
Calegory				Start		End	
Item Emergency Supplies &					0		0
item	Equipmen	nt			0		0
DWR ID DWR_RD0349_01_f _ 2014_3							
Comment Code							
		Inspecto	or Comm	nent			
District does have some supplies including sand, sand bags, and stakes.							

No Photos

LM Start		Rating **	Α	Issue No.		4	
LM End		Issue Type +	Ма	Location *			
Category	Earthen L	evee		GPS Latitude/Longitud			
<b>3</b> ,			Start		End		
Operations & Maintenance				0		0	
Manuals				0		0	
DWR ID DWR_RD0349_01_f _ 2014_4							
		Comn	nent Coc	le			
			_				
		Inspecto	or Comm	ent			
RD 349 ha	is O&M Ma	anual on hand					

No Photos

LM Start		Rating **	М	Issue No.		14	
LM End		Issue Type +	Ма	Location *			
Category	Earthen L	evee		GPS La	de/Longitude		
Calegory				Start		End	
Item	Flood Preparedness & Training				0		0
item					0		0
DWR ID DWR_RD0349_01_f _ 2014_14							
		Comn	nent Cod	le			
		Inspecto	or Comm	ent			
LMA has not taken flood fight training in the past couple of years.							

No Photos

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/10/2020 04/10/2020	David Julian

LM Start	0.01	Rating **	A/W	Issue No.	9		
LM End	0.10	Issue Type +	Ма	Location *	WS		
Category	Supplemental			GPS Latitude/Longitude			
Category			Start		End		
Item	2017 USA	2017 USACE Erosion Survey			6°	38.325798 °	
пеш			-121.57655	7 °	-121.577027 °		
DWR ID	R ID DWR_RD0349_01_f _ 2018_9						
	Comment Code						

Inspector Comment

2017 Site ID: SAC 33.9 R

Status: Critical

2017 Field Notes: New erosion pocket. Tree roots propped up with junk. Tree likely to fall and house to come tumbling after. Upgraded to critical.

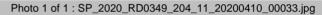
Site History: 2015 - Erosion observed at the toe.

LM Start	0.01	Rating **	U	Issue No. 11		11		
LM End	0.37	Issue Type +	Ма	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory	zategory				Start		End	
Item	Vegetatio	Vegetation			56 °	38.321919	0	
item			-121.5770	20 °	-121.578396	0		
DWR ID DWR_RD0349_01_f _ 2019_11								
			. ^					

Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



No Photos



View looking downstream at annual vegetation on the landside slope (Spring 2020).

LM Start	0.01	Rating **	U	Issue No.	lo. 23		
LM End	0.50	Issue Type +	Ma	Location *	WS		
Category Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
ltom	Vegetation			38.3270	38 °	38.320101 °	
Item				-121.5769	22 °	-121.578619 °	
DWR ID DWR_RD0349_01_s _ 2020_23							
		Comp	nont Coc	40			

#### Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



View looking upstream at annual vegetation on the waterside slope (Spring 2020).

Location + Issue Type Ma : Maintenance Deficiancy LS: Land Side N/A: Not Applicable Acceptable N : Not Inspected/Rated WS : Water Side Minimally Acceptable C : Corrected Ob : Design & System Obsolescence CR : Crown U : Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/10/2020 04/10/2020	David Julian

LM Start	0.38	Rating **	М	Issue No.		21	
LM End	0.96	Issue Type +	Ma	Location *	Location * LS		
Cotogony	evee	GPS La	atitud	e/Longitude			
Category				Start		End	
Item	Vegetatio	n		38.3218	60 °	38.313537 °	
пеш				-121.5784	30 °	-121.578881 °	
DWR ID DWR_RD0349_01_f _ 2019_21							
		Comn	nent Cod	de			
V1 : Contreasements	,	grass and wee	eds on th	e levee slo	pes	and	
		Inspecto	or Comm	nent			

No Photos

Rating \*\* Issue No. LM Start 0.47 Μ 22 1.44 Location \* WS Issue Type + Ма LM End Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 38.320520° 38.307013 ° Item -121.578605 ° -121.575518 ° DWR ID DWR\_RD0349\_01\_f \_ 2017\_22 Comment Code

No Photos

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

LM Start	0.89	Rating **	С	Issue No.		38		
LM End	0.89	Issue Type +	Ма	Location *	WS			
Catagory	Category Earthen Levee				GPS Latitude/Longitude			
Category	<del>-g</del> ory					End		
Item	Trim / Thi	Trim / Thin Trees			48 °	38.314548	٥	
item				-121.5790	98 °	-121.579098	٥	
DWR ID								
	Comment Code							

No Photos

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

\* Location

LS: Land Side N/A: Not Applicable WS: Water Side

CR : Crown

\*\* Rating
A: Acceptable
M: Minimally Acceptable

U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence
En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/10/2020 04/10/2020	David Julian

LM Start	1.00	Rating **	М	Issue No.		15	
LM End	1.06	Issue Type +	Ма	Location *	WS		
Catagory	Category Earthen Levee			GPS Latitude/Longitude			
Calegory		Start		End			
Item	Erosion /	Bank Caving		38.31291	0	38.312131	0
пеш				-121.578528	°	-121.578292	0
DWR ID	LMA-145						

Comment Code E2 : Schedule repair of erosion site prior to the next inspection.

#### Inspector Comment

This was a 2017 Storm Damage site.

Approximately 296 linear-feet of eroded area. Erosion commences at approximately 3/4 of the way down the slope from the crown and extends into the rip rap. Some rip rap has been pulled off in this section.

Site ID No:318

Site Designation:LMA-145

4/10/2020 Field Notes:

Vegetation too thick to view from the crown. Boat survey will provide better view.



Waterside erosion at LM 1.02.

LM Start	1.14	Rating **	М	Issue No. 24		24	
LM End	1.14	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Trim / Thin Trees				38.3109	92 °	38.310992 °	
пеш			-121.5780	50 °	-121.578050 °		
DWR ID	DWR_RD0349_01_s _ 2018_24						
Comment Code							

T1: Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

CR : Crown

A : Acceptable M : Minimally A : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 0349 Sutter Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/10/2020 04/10/2020	David Julian

LM Start	1.15	Rating **	С	Issue No.	25		
LM End	1.20	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory			Start		End		
Item	Vegetatio	n		38.3107	85 °	38.310123	
		-121.577963 °		-121.577590			
DWR ID	DWR_RD0	349_01_f _ 201	9_25				
		Comn	nent Cod	de			
V2 : Remo	V2 : Remove the wild growth other than native grasses from the levee slopes.						
	Inspector Comment						

No Photos

1.40	Rating **	С	Issue No.	36				
1.40	Issue Type +	Ma	Location *	LS				
Category Earthen Levee				GPS Latitude/Longitude				
			Start		End			
Encroach	ments		38.30755	3°	38.307553 °			
		-121.57584	8 °	-121.575848 °				
DWR_RD0								
Comment Code								
	1.40 Earthen L Encroach	1.40 Issue Type + Earthen Levee Encroachments DWR_RD0349_01_f_ 201	1.40 Issue Type + Ma Earthen Levee Encroachments  DWR_RD0349_01_f_2018_36	1.40         Issue Type +         Ma         Location *           Earthen Levee         GPS Lat           Start         Start           Encroachments         38.30755           -121.57584           DWR_RD0349_01_f_ 2018_36	1.40         Issue Type +         Ma         Location *           Earthen Levee         GPS Latitud           Start           Encroachments         38.307553 °           -121.575848 °           DWR_RD0349_01_f _ 2018_36			

No Photos

TR : Tree or limb

Inspector Comment

LM Start	1.45	Rating **	U	Issue No. 16		16		
LM End	1.45	Issue Type +	Ma	Location * WS				
Category	Earthen L	evee		GPS La	titud	e/Longitude		
Category				Start		End		
Item	Trim / Thi	n Trees		38.30699	95 °	38.306995	0	
item				-121.57543	32 °	-121.575432	0	
DWR ID	DWR_RD0	349_01_s _ 201	19_16					
		Comn	nent Coo	de				
T1 : Trim t	rees to at	least five feet	above g	round level.				
	Inspector Comment							



View of thick trees on the waterside slope (Spring 2019).

\*Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

\*\*Rating

A : Acceptable N : Not Inspected/Rated M : Maintenance Deficiancy

C : Corrected Ob : Design & System Obsolescence

U : Unacceptable A/W : Acceptable but Monitor & Maintain

\*\*Rating

A : Acceptable M : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 0349 Sutter Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	04/10/2020 04/10/2020	David Julian

LM Start	1.54	Rating **	U	Issue No.	34		
LM End	1.58	Issue Type +	Ma	Location *	WS		
Category	Earthen L	evee		GPS Latitude/Longitude			
Category				Start		End	
Item	Vegetatio	egetation			72 °	38.305252 °	
пеш				-121.5747	63 °	-121.574791 °	
DWR ID	DWR_RD0	DWR_RD0349_01_s _ 2020_34					
		Comn	nent Cod	de			
V2 : Remo	ve the wild	d growth other	than na	tive grasse	s fro	m the levee	
		Inspecto	or Comm	nent			
Arundo co	Inspector Comment  Arundo completely blocks visibility and access to waterside of levee.						



View of arundo on the waterside of levee

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 0349 Sutter Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

LM Start	0.04	Rating **	М	Issue No.	22		
LM End	3.29	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee	GPS Latitude/Longitud			e/Longitude	
Calegory				Start End			
Item	Vegetatio	n	38.3048	77 °	38.263613	٥	
			-121.575395 °		-121.588590	٥	
DWR ID	DWR_RD0	349_02_s _ 202	20_22				
		Comn	nent Cod	de			
V1 : Control annual grass and weeds on the levee slopes and easements.							
		Inspecto	or Comm	nent			

Also control wild growth in various locations along this stretch.



View looking downstream at annual vegetation on the landside slope (Spring 2020).

LM Start	0.04	Rating **	М	Issue No.	36	
LM End	3.35	Issue Type +	Ма	Location *	WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Vegetatio	n		38.3048	64 °	38.262889
item				-121.5753	99 °	-121.589275
DWR ID	DWR_RD0349_02_s _ 2020_36					
Comment Code						

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



View looking downstream at annual vegetation on the waterside slope (Spring 2020).

-							_
LM Start	0.25	Rating **	С	Issue No.		75	
LM End	0.25	Issue Type +	Ма	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Encroach	Encroachments			17 °	38.303317	0
пеш				-121.578673 °		-121.578673	0
DWR ID	DWR_RD0349_02_f _ 2018_75						
		Comn	nent Cod	de			
TR : Tree	or limb						
		Inspecto	or Comm	nent			
Remove d	owned tree	e from the land	dside slo	pe.			

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

LM Start	0.33	Rating **	М	Issue No.		33
LM End	0.33	Issue Type +	Ma	Location *		WS
Cotogony	Earthen L	evee		GPS La	tituc	le/Longitude
Category				Start		End
Item	Encroach	ments		38.30254	2°	38.302542 °
пеш				-121.57976	2°	-121.579762 °
DWR ID	DWR_RD0	349_02_s _ 202	20_33			
		Comn	nent Cod	de		
TR : Tree	or limb					
		Inspecto	or Comm	nent		

No Photos

LM Start	0.40	Rating **	М	Issue No.		74		
LM End	0.42	Issue Type +	Ma	Location *	WS			
Category Earthen Levee				GPS La	titud	le/Longitude		
Calegory	Salegory					End		
Item	Trim / Thi	n Trees		38.30167	73 °	38.301347 °		
пеш				-121.58038	35 °	-121.580522 °		
DWR ID DWR_RD0349_02_f _ 2018_74								
Comment Code								

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

No Photos

LM Start	0.45	Rating **	U	Issue No.	38			
LM End	0.45	Issue Type +	Ма	Location *	LS			
Category	GPS La	titud	le/Longitude					
Calegory	zategory					End		
Item	Vegetatio	n		38.30097	73 °	38.300973	0	
пеш				-121.58070	)9 °	-121.580709	0	
DWR ID DWR_RD0349_02_s _ 2020_38								
	Comment Code							

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment



View of thick willows on the landside slope (Spring 2020).

\* Location LS : Land Side N/A: Not Applicable A : Acceptable M : Minimally Acceptable WS : Water Side CR : Crown

U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W: Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 0349 Sutter Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

LM Start	0.60	Rating **	М	Issue No.		28	
LM End	0.72	Issue Type +	Ma	Location *	WS		
Category	Suppleme	ental		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	2017 USA	Survey	38.2988	97 °	38.297384 °		
пеш	item				71 °	-121.582176 °	
DWR ID	DWR_RD0	349_02_f _ 201	8_28				
		Comn	nent Cod	de			
Inspector Comment							
	2017 Site ID: STM 25.5 R Status: Eroding						

2017 Field Notes: No observed change.

Site History: 2010 - Small maintenance, erosion into the toe. 2011 -Minor new erosion at toe. 2015 - Minor new erosion at toe, new tree pop-out. 2016 - Fresh scarp at downstream end.

USACE 2013 Photo #1

1							
0.64	Rating **	С	Issue No.	54			
0.70	Issue Type +	Ma	Location *		LS		
Earthen L	evee		GPS La	atitud	le/Longitude		
			Start		End		
Encroach	ments		38.2984	60°	38.297588 °		
			-121.5821	15 °	-121.582402 °		
DWR_RD0	349_02_s _ 201	9_54					
	Comn	nent Cod	de				
or limb							
	Inspecto	or Comn	nent				
	0.70 Earthen L Encroach	0.70 Issue Type + Earthen Levee Encroachments  DWR_RD0349_02_s _ 201  Comnor limb	0.70 Issue Type + Ma  Earthen Levee  Encroachments  DWR_RD0349_02_s _ 2019_54  Comment Cocor limb	0.70         Issue Type +         Ma         Location *           Earthen Levee         GPS Listert           Start         Start           Encroachments         38.2984           -121.5821           DWR_RD0349_02_s _ 2019_54           Comment Code	0.70         Issue Type +         Ma         Location *           Earthen Levee         GPS Latitud Start           Encroachments         38.298460 °         -121.582115 °           DWR_RD0349_02_s _ 2019_54         Comment Code           or limb		

No Photos

Photo 1 of 1: SP\_2020\_RD0349\_205\_28\_20200304\_00011.jpg

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

LM Start	0.68	Rating **	U	Issue No.		78
LM End	0.71	Issue Type +	Ma	Location *	LS	
Category	evee	GPS Latitude/Longitude				
Calegory				Start		End
Item	Vegetatio	n		38.2979	42 °	38.297454 °
item			-121.5823	38 °	-121.582447 °	
DWR ID DWR_RD0349_02_f _ 2019_78						
		Comn	nent Coo	de		

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment



View looking downstream at thick vegetation on the landside slope (Fall 2019).

LM Start	0.81	Rating **	U	Issue No.		105	
LM End	0.81	Issue Type +	Ma	Location *		LS	
Category	evee	GPS La	atitud	le/Longitude			
Category				Start		End	
Item	Trim / Thi	n Trees		38.2960	73 °	38.296073	0
пеш				-121.5827	65 °	-121.582765	0
DWR ID DWR_RD0349_02_f _ 2019_105							
Comment Code							

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment



View of thick tree on the landside slope (Spring 2020).

LM Start	0.87	Rating **	U	Issue No.		71	
LM End	0.87	Issue Type +	Ma	Location *	WS		
Category	evee	GPS Latitude/Longitude					
Category	ategory					End	
Item	Vegetatio	n		38.2952	42 °	38.295190 °	
пеш				-121.5830	43 °	-121.583095 °	
DWR ID	WR ID DWR_RD0349_02_f _ 2018_71						
	Comment Code						

V2: Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Remove arundo from the waterside slope.

CR : Crown



View looking upstream at arundo on the waterside slope (Fall 2019).

Location : Acceptable : Minimally Acceptable LS: Land Side N/A: Not Applicable N : Not Inspected/Rated WS : Water Side C : Corrected

U : Unacceptable A/W: Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

LM Start	1.33	Rating **	A/W	Issue No.	27		
LM End	1.49	Issue Type +	Ma	Location *	WS		
Category Supplemental				GPS Latitude/Longitude			
Calegory	egory					End	
Item	2017 USA	CE Erosion S	Survey	38.2887	27 °	38.286475 °	
пеш				-121.5838	23 °	-121.585026 °	
DWR ID DWR_RD0349_02_f _ 2018_27							
	Comment Code						

#### Inspector Comment

2017 Site ID: STM 24.7 R

Status: Critical

2017 Field Notes: No observed change.

Site History: 1997 - Erosion of very sandy levee behind large stand of riparian vegetation on top right bank. Dry ravel of sand. 1999 - Quarry waste rock was dumped down the levee slope; poor repair job; still eroding in places. Eroding at midslope off fabric. 2005 - Length revised, only the middle 150 - 200 ft are eroding. 2006 - Some rock/small material dumped down the bank but it is slowly unraveling. Upstream end is unraveling faster. Steep slope with poor gradation so fines are washing out. 2010 - Lots of overhanging trees and erosion pockets. 2011 - This site is upgraded to CRITICAL. Near vertical bank at the downstream end. New erosion at various locations throughout the site.



USACE 2013 Photo #1

LM Start	1.46	Rating **	М	Issue No.		34
LM End	1.46	Issue Type +	Ма	Location *	ation * WS	
Catagori Earthen Levee				GPS Latitude/Longitude		
Category		Start		End		
Item	Erosion /	Bank Caving		38.28688	6 °	38.286861 °
пеш				-121.58458	9 °	-121.584622 °
DWR ID	LMA-149					

Comment Code E2: Schedule repair of erosion site prior to the next inspection.

#### Inspector Comment

This was a 2017 Storm Damage site.

Approximately 12 linear feet of erosion/sloughing. The erosion area commences approximately halfway down the slope from the levee crown and extends to the waterside toe around existing trees. No rip rap is visible in this area.

Site ID No:322

Site Designation:LMA-149

4/10/2020 Field Notes:

Vegetation too thick to view from the crown. Boat survey will provide better view.

#### Photo 1 of 1: SP\_2020\_RD0349\_205\_34\_20200304\_00016.jpg



LS: Land Side N/A: Not Applicable

WS : Water Side CR : Crown

Acceptable Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected

A/W: Acceptable but Monitor & Maintain

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

LM Start	1.48	Rating **	М	Issue No.	37		
LM End	1.49	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
				Start		End	
Item	Erosion /	Bank Caving		38.2867	08 °	38.286569	
пеш				-121.5848	39 °	-121.585042	
DWR ID LMA-150							
	Comment Code						

E2: Schedule repair of erosion site prior to the next inspection.

#### Inspector Comment

This was a 2017 Storm Damage site.

Approximately 77 linear feet of erosion and scour. The erosion area commences approximately halfway down the slope from the levee crown and extends to the waterside toe around existing trees. No rip rap is visible in this area.

Site ID No:323

Site Designation:LMA-150

4/10/2020 Field Notes:

Vegetation too thick to view from the crown. Boat survey will provide better view.

LM Start	1.48	Rating **	М	Issue No.	37 (cont)
LM End	1.49	Issue Type +	Ma	Location *	WS



Photo 2 of 2: SP\_2020\_RD0349\_205\_37\_20200304\_00020.jpg



A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

	4.0=	D-45 **		Innua NI		444
LM Start	1.67	Rating **	М	Issue No.		111
LM End	1.67	Issue Type +	Ma	Location *	WS	
Category Earthen Levee				GPS Latitude/Longitude		
Calegory			Start		End	
Item	Trim / Thin Trees			38.28506	60°	38.285060 °
item				-121.58777	72 °	-121.587772 °
DWR ID	DWR_RD0	349_02_f _ 201	9_111			
Comment Code						
T2 : Thin t	T2 : Thin trees to allow visibility of the ground and room to flood fight.					

Inspector Comment

No Photos

LM Start	1.73	Rating **	М	Issue No.	51		
LM End	1.73	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
				Start		End	
Item	Trim / Thi	n Trees		38.2844	10 °	38.284410	
item				-121.5885	52 °	-121.588552	
DWR ID DWR_RD0349_02_f _ 2019_51							
Comment Code							

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

No Photos

LM Start	2.04	Rating **	М	Issue No.	26		
LM End	2.05	Issue Type +	Ma	Location *	WS		
Category Supplemental				GPS La	titud	le/Longitude	
				Start		End	
Item	2017 USA	CE Erosion S	Survey	38.28006	9°	38.279919	0
iteiii				-121.58944	3°	-121.589438	0
DWR ID DWR_RD0349_02_f _ 2018_26							
Comment Code							

Inspector Comment

2017 Site ID: STM 24.1 R

Status: Eroding

2017 Field Notes: No observed change.

Site History: 2011 - Small scallop caused by erosion and wave wash.



USACE 2013 Photo #1

\*Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

\*\*Rating

A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable U : Unacceptable U : Unacceptable A/W : Acceptable but Monitor & Maintain

\*\*Rating

A : Asceptable M : Minimally Acceptable O : C : Corrected O : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

LM Start	2.11	Rating **	A/W	Issue No.	25		
LM End	2.14	Issue Type +	Ma	Location *	WS		
Category	ental	GPS Latitude/Longitude					
Category	alegory					End	
Item	2017 USA	CE Erosion S	Survey	38.2790	17 °	38.278597 °	
пеш				-121.5896	15 °	-121.589854 °	
DWR ID	WR ID DWR_RD0349_02_f _ 2018_25						
	Comment Code						

#### Inspector Comment

2017 Site ID: STM 23.9 R

Status: Eroding

2017 Field Notes: No observed change.

Site History: 1997 - Top right bank has retreated into the levee. Site is between two rock sites. 1999 - Downstream half of the reach repaired with rock. 2000 - Trees leaning into the water. 2010 - Site appears worse. 2011 - New erosion at the toe. 2013 - Short vertical sections observed at upstream end. 2015 - Minor new erosion.

# Photo 1 of 1: SP\_2020\_RD0349\_205\_25\_20200304\_00008.jpg



USACE 2013 Photo #1

LM Start	2.37	Rating **	U	Issue No.		60
LM End	2.39	Issue Type +	Ма	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
Category				Start		End
Item	Vegetatio	n		38.275713	°	38.275435 °
пеш				-121.591369	°	-121.591177 °
DWR ID DWR_RD0349_02_f _ 2017_60						
		C		1_		

Comment Code V2: Remove the wild growth other than native grasses from the levee

Inspector Comment

Remove Arundo.

slopes.

## Photo 1 of 1: SP\_2020\_RD0349\_205\_60\_20200304\_00038.jpg



View looking upstream at arundo on the landside slope (Fall 2019).

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

LM Start	2.43	Rating **	М	Issue No.		42	
LM End	2.44	Issue Type +	Ma	Location *	WS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory	Category			Start		End	
Item	Erosion /	Bank Caving		38.2751	31 °	38.275036 °	
пеш				-121.5905	94 °	-121.590461 °	
DWR ID DWR_RD0349_02_s _ 2020_42							
		Comn	nent Cod	de			

E2: Schedule repair of erosion site prior to the next inspection.

#### Inspector Comment

This was a 2017 Storm Damage site. Approximately 51 linear feet of erosion. The erosion area commences approximately 3/4 of the way down the slope from the levee crown and extends to the waterside toe around existing trees. No rip rap is visible in this area. Site ID No:325

Site Designation:LMA-152

4/10/2020 Field Notes:

Vegetation too thick to view from the crown. Boat survey will provide better view.





LM Start	2.56	Rating **	A/W	Issue No.		24
LM End	2.69	Issue Type +	Ма	Location *		WS
Category			GPS Latitude/Longitude			
Calegory				Start		End
Item	2017 USA	CE Erosion S	Survey	38.27385	64 °	38.271998 °
iteiii				-121.58874	5°	-121.589424 °
DWR ID	DWR_RD0	349_02_f _ 201	8_24			

## Inspector Comment

Comment Code

2017 Site ID: STM 23.6 R

Status: Eroding

2017 Field Notes: Previously observed quarry stone at the downstream

end is now gone. Significant erosion at upstream end. Fresh

sedimentation on the downstream end.

Site History: 2011 - Toe scour at the tidal zone. 2015 - New tree popout and minor new erosion. 2016 - New erosion at upstream end.

Photo 1 of 2: SP\_2020\_RD0349\_205\_24\_20200304\_00006.jpg



USACE 2013 Photo #1

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 0349 Sutter Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

LM Start	2.56	Rating **	A/W	Issue No.		24 (cont)
LM End	2.69	Issue Type +	Ma	Location *		WS
Category			GPS Latitude/Longitude			
Calegory				Start		End
Item	2017 USA	ACE Erosion S	Survey	38.2738	54 °	38.271998 °
пеш				-121.5887	45 °	-121.589424 °
DWR ID	DWR RD0	349 02 f 201	8 24			

Photo 2 of 2: SP\_2020\_RD0349\_205\_24\_20200304\_00007.jpg



USACE 2013 Photo #2

LM Start	2.78	Rating **	С	Issue No.		95
LM End	2.78	Issue Type +	Ma	Location *	WS	
Category Earthen Levee			GPS Latitude/Longitude			
Calegory	Category			Start		End
Item	Vegetatio	n		38.27079	5 °	38.270795 °
пеш				-121.58994	8 °	-121.589948 °
DWR ID DWR_RD0349_02_s _ 2019_95						
	Comment Code					

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

No Photos

LM Start	2.89	Rating **	U	Issue No.		96
LM End	2.89	Issue Type +	Ma	Location *	LS	
Category Earthen Levee			GPS Latitude/Longitude			
Category			Start		End	
Item	Vegetatio	n		38.26916	32 °	38.269162 °
item				-121.58967	'0 °	-121.589670 °
DWR ID	DWR_RD0	349_02_s _ 201	19_96			
		Comn	nent Coo	de		

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

\* Location

N/A: Not Applicable

LS : Land Side WS : Water Side CR : Crown

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated

C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

LM Start	3.06	Rating **	С	Issue No.		99
LM End	3.06	Issue Type +	Ma	Location *		WS
Cotogony	Category Earthen Levee			GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Encroach	ments		38.2669	25 °	38.266925 °
пеш				-121.5884	27 °	-121.588427 °
DWR ID	DWR_RD0	349_02_s _ 201	19_99			
		Comn	nent Cod	de		
TR : Tree	or limb					
		Inspecto	or Comm	nent		

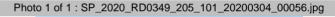
No Photos

LM Start	3.16	Rating **	U	Issue No.		101
LM End	3.18	Issue Type +	Ма	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
Calegory	gory			Start		End
Item	Vegetatio	n		38.2655	57 °	38.265143 °
пеш				-121.5883	77 °	-121.588403 °
DWR ID DWR_RD0349_02_s _ 2019_101						

#### Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment





View looking downstream at thick blackberries at the bottom of the landside slope (Fall 2019).

LM Start	3.29	Rating **	U	Issue No.		62
LM End	3.60	Issue Type +	Ma	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
Category	Category			Start		End
Item	Vegetatio	n		38.26359	94 °	38.262449
пеш				-121.58862	29 °	-121.593726
DWR ID DWR_RD0349_02_f _ 2018_62						
		Comn	nent Cod	de		

V2 : Remove the wild growth other than native grasses from the levee slopes.

## Inspector Comment

Remove thick berry vines that completely block inspection and access to toe. Also control annual vegetation.

#### Photo 1 of 1: SP\_2020\_RD0349\_205\_62\_20200304\_00040.jpg



View looking downstream at thick blackeberries on the bottom of the landside slope (Fall 2019).

\* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

\*\* Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

U: Unacceptable A/W: Acceptable but Monitor & Maintain Enforcement

\* Issue Type

Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

LM Start	3.38	Rating **	М	Issue No.		23		
LM End	3.49	Issue Type +	Ма	Location *	WS			
Category	Suppleme	ental		GPS La	atitud	de/Longitude		
Calegory			Start		End			
Item	2017 USA	017 USACE Erosion Survey			10 °	38.262533 °		
item			-121.589481 °		-121.591690 °			
DWR ID	DWR_RD0	349_02_f _ 201	8_23					
		Comn	nent Cod	de				
Inspector Comment								
2017 Site	ID: STM 22	2.8 R						

Status: Eroding

2017 Field Notes: No observed change.

Site History: 2010 - Slumping sections on the lower bank, appears to be scouring around the trees. 2011 - Soil beach at toe.

ho	to 1 of 1 : SP_2020_RD0349_205_23_20200304_00005.jpg
	28 (pt. 2013 pt. 301 (pt. 2013 ker 17 41 st

USACE 2013 Photo #1

LM Start	3.64	Rating **	С	Issue No.		104		
LM End	3.67	Issue Type +	Ma	Location *		WS		
Category	evee		GPS La	atitud	le/Longitude			
Calegory			Start		End			
Itom	Vegetatio	n		38.262068 °		38.261835 °		
Item				-121.5942	83 °	-121.594553 °		
DWR ID	DWR ID DWR_RD0349_02_s _ 2019_104							
		Comn	nent Coo	de				

V2: Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Wild growth is blocking the view down the waterside slope.

No Photos

LM Start	3.66	Rating **	М	Issue No.	65			
LM End	3.66	Issue Type +	Ма	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Category			Start		End			
Item	Trim / Thi	n Trees		38.2619	33 °	38.261933 °		
пеш				-121.5945	49 °	-121.594549 °		
DWR ID	ID DWR_RD0349_02_f _ 2017_65							
	Comment Code							

T2: Thin trees to allow visibility of the ground and room to flood fight.

#### Inspector Comment

Trim/thin fig trees and eveergreen shrubs to allow visibility and access to levee slope.



View of fig trees and eveergreen shrubs on the landside levee slope.

Location + Issue Type Ma : Maintenance Deficiancy LS: Land Side N/A: Not Applicable A : Acceptable M : Minimally Acceptable N : Not Inspected/Rated WS : Water Side C : Corrected Ob : Design & System Obsolescence CR : Crown U : Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 0349 Sutter Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

LM Start	3.68	Rating **	М	Issue No.		46			
LM End	4.30	Issue Type +	Ma	Location *		WS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory				Start		End			
Vegetation				38.2617	21 °	38.254719 °			
пеш			-121.5947	27 °	-121.599703 °				
DWR ID	DWR ID DWR_RD0349_02_s _ 2020_46								
		Comn	nent Cod	de					
V1 : Contre easements		grass and wee	eds on th	e levee slo	pes	and			
	Inspector Comment								

No Photos

	LM Start	3.71	Rating **	U	Issue No.	64		
	LM End	3.72	Issue Type +	Ma	Location *	WS		
	Category	Earthen L	GPS La	atitud	e/Longitude			
	Calegory		Start		End			
	ltom	Vegetatio	Vegetation			52 °	38.261143	0
Item				-121.5950	12 °	-121.595071	0	
	DWR ID DWR_RD0349_02_s _ 2018_64							
			Comp	ant Coc	ما			

V2 : Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Remove cactus (century plants) from the waterside shoulder.

Photo 1 of 1: SP\_2020\_RD0349\_205\_64\_20200304\_00042.jpg

View of cactus on the waterside shoulder (Spring 2019).

LM Start	3.81	Rating **	A/W	Issue No.		85			
LM End	3.99	Issue Type +	Ma	Location *		LS			
Category Earthen Levee				GPS Latitude/Longitude					
Calegory				Start		End			
Animal Control				38.259882 °		38.257252 °			
item				-121.5952	45 °	-121.595403 °			
DWR ID	DWR_RD0	349_02_f _ 201	9_85						
Comment Code									

A1 : Exterminate rodents and backfill and compact or grout burrows.

#### Inspector Comment

Exterminate the rodents from the levee section.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

LM Start	3.93	Rating **	С	Issue No.		31	
LM End	4.31	Issue Type +	Ма	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
			Start		End		
Vegetation			38.2581	65 °	38.254680 °		
пеш			-121.5951	43 °	-121.599793 °		
DWR ID	DWR_RD0	349_02_f _ 201	8_31				
Comment Code							
V2 : Remo	ve the wild	d growth other	than na	tive grasses	s fro	m the levee	

Inspector Comment

Remove black berries and control vegetation all the way down to the landside toe.

No Photos

LM Start	3.99	Rating **	М	Issue No.	48		
LM End	4.30	Issue Type +	Ma	Location *	LS		
Catagony	Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start End			
Vegetation			38.2573	42 °	38.254719 °		
item				-121.5953	66°	-121.599703 °	
DWR ID	WR ID DWR_RD0349_02_s _ 2020_48						
	Comment Code						

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

LM Start	4.09	Rating **	М	Issue No.	35			
LM End	4.09	Issue Type +	Ma	Location *	WS			
Category	Earthen L	GPS Latitude/Longitude						
Calegory				Start		End		
Item	Slope Stability			38.2560	65 °	38.256065	0	
item				-121.5963	05 °	-121.596305	0	
DWR ID	DWR_RD0	349_02_f _ 201						
Comment Code								

S2: Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

A foot path is beginning to dig into the waterside slope.



Photo 1 of 1: SP\_2020\_RD0349\_205\_35\_20200304\_00018.jpg

View of footpath going down the waterside slope (November 2018).

\* Location N/A: Not Applicable LS: Land Side WS : Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

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CR : Crown

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 0349 Sutter Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	04/10/2020 04/10/2020	David Julian

		D (' **					
LM Start	4.26	Rating **	U	Issue No.		30	
LM End	4.33	Issue Type +	Ma	Location *	WS		
Category	Earthen Levee			GPS La	atitud	le/Longitude	
Category				Start		End	
Vegetation			38.2548	70°	38.254882 °		
			-121.599008 °		8° -121.600150°		
DWR ID DWR_RD0349_02_f _ 2018_30							
		Comn	nent Cod	de			
V2 : Remo	ve the wild	d growth other	than na	tive grasse	s fro	m the levee	
		Inspecto	or Comm	nent			



View of arundo on the waterside slope (November 2018).

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/10/2020 04/10/2020	David Julian

LM Start	0.00	Rating **	U	Issue No.		38	
LM End	1.07	Issue Type +	Ma	Location *	WS		
Catagony	Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start End			
Item	Vegetatio	n		38.2547	38.269880		
пеш				-121.600006 ° -121.6035			
DWR ID	DWR_RD0	349_03_s _ 202	20_38				
Comment Code							
V1 : Contro	ol annual d	rass and wee	eds on th	e levee slor	es a	and	

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



View looking upstream at annual vegetation on the waterside slope (Spring 2020).

LM Start	0.00	Rating **	U	Issue No.		31	
LM End	1.08	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start	End		
Vegetation				38.2547	25 °	38.269881	0
пеш				-121.600007 ° -121.603543			0
DWR ID	DWR_RD0	349_03_s _ 202	20_31				

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment



View looking upstream at annual vegetation on the landside slope (Spring 2020).

LM Start	<b>0.02</b> Rating ** U		U	Issue No.		34	
LM End	0.21	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory			Start		End		
Vegetation				38.25502	5 °	38.257803 °	
пеш				-121.60007	8 °	-121.599805 °	
DWR ID	R ID DWR_RD0349_03_s _ 2019_34						
		_					

#### Comment Code

 $\ensuremath{\mathsf{V2}}$  : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment



View looking upstream at vegetation on the landside slope (Fall 2019).

\* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

\*\* Rating
A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

\*\* Rating
A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy Ob: Design & System Obsolescence
D: Design & System Obsolescence
En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/10/2020 04/10/2020	David Julian

LM Start	0.06	Rating **	М	Issue No.		47	
LM End	1.08	Issue Type +	Ma	Location *	CR		
Cotogony	Earthen Levee			GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Vegetatio	egetation			02 °	38.269881	
пеш			-121.6000	11 °	-121.603543		
DWR ID	DWR_RD0	349_03_s _ 202	20_47				
		Comn	nent Cod	de			
V9 : Keep	the crown	roadway free	of veget	ation.			
		Inspecto	or Comm	nent			
1							

No Photos

LM Start	0.42	Rating **	М	Issue No.	32		
LM End	0.77	Issue Type +	Ма	Location *	LS		
Category	Earthen L	.evee		GPS Latitude/Longitude			
Calegory				Start End			
Item	Vegetatio	n		38.2607	62 °	38.265662 °	
пеш				-121.6005			
DWR ID	DWR_RD0349_03_f _ 2019_32						
Comment Code							

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

No Photos

LM Start	0.76	Rating **	U	Issue No.	8			
LM End	0.76	Issue Type +	Ма	Location *	LS			
Category	Earthen L	evee	GPS Latitude/Longitude					
Category			Start End					
Item	Trim / Thi	n Trees		38.265637 ° 38.265637				
пеш				-121.60164	o O	-121.601640	0	
DWR ID	DWR_RD0	349_03_f _ 201						
	Comment Code							

T2: Thin trees to allow visibility of the ground and room to flood fight.

#### Inspector Comment

Trim large fig tree to allow visibility and access to landside levee slope.

## Photo 1 of 1 : SP\_2020\_RD0349\_206\_8\_20200304\_00001.jpg



View looking upstream at fig tree on the landside slope (Fall 2019).

\*Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

\*\* Rating

A : Acceptable N : Not Inspected/Rated M : Maintenance Deficiancy

C : Corrected Ob : Design & System Obsolescence

U : Unacceptable A/W : Acceptable but Monitor & Maintain

\*\* Rating

A : Acceptable M : Maintenance Deficiancy

Ob : Design & System Obsolescence

En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 0349 Sutter Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/10/2020 04/10/2020	David Julian

LM Start	0.80	Rating **	М	Issue No.		67	
LM End	0.80	Issue Type +	Ma	Location * LS			
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
ltem Encroachments			38.2662	01 °	38.266201 °		
пеш			-121.601832 °		-121.601832 °		
DWR ID	DWR ID DWR_RD0349_03_s _ 2018_67						
		Comn	nent Cod	de			
TR : Tree	or limb						
		Inspecto	or Comm	nent			
Trees and limbs on landside shoulder and slope need to be cleared out to allow inspection and access.							



View of down tree on the land side shoulder (November 2018).

LM Start	1.11	Rating **	U	Issue No.		51	
LM End	1.13	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thin Trees			38.2704	52 °	38.270677 °	
item				-121.603587 °		-121.603572 °	
DWR ID	DWR_RD0	349_03_f _ 201	7_51			·	
		Comn	nent Cod	de			
T1 : Trim t	rees to at	east five feet	above g	round level	•		
Inspector Comment							



View looking upstream at untrimmed trees on the landside slope (Fall 2019).

LM Start	1.13	Rating **	М	Issue No.	33		_
LM End	4.94	Issue Type +	Ма	Location *		LS	
Category	Earthen L	GPS La	atitud	le/Longitude			
Category			Start		End		
Vegetation			38.2707	52 °	38.318765	0	
пеш				-121.6035	58 °	-121.589590	0
DWR ID	DWR_RD0	349_03_s _ 202	20_33				
		Comn	nent Coc	de			
V1 : Contre		grass and wee	eds on th	e levee slop	oes	and	
		Inspecto	or Comm	nent			

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/10/2020 04/10/2020	David Julian

LM Start	1.28	Rating **	М	Issue No.		53
LM End	4.02	Issue Type +	Ma	Location *		WS
Cotogory	Earthen Levee			GPS La	titud	le/Longitude
Category			Start		End	
Vegetation Item			38.27279	93 °	38.308365 °	
item				-121.60288	39 °	-121.597300 °
DWR ID	DWR_RD0	349_03_s _ 202	20_53			
		Comn	nent Cod	de		
V1 : Contro easements		grass and wee	eds on th	e levee slop	es	and
		Inspecto	or Comm	nent		

No Photos

LM Start	1.49	Rating **	С	Issue No.	70		
LM End	1.49	Issue Type +	Ма	Location *	WS		
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Vegetation			38.2754	96 °	38.275496	0
item		-121.6012	72 °	-121.601272	0		
DWR ID	DWR_RD0						
	Comment Code						

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

No Photos

LM Start	1.54	Rating **	М	Issue No.		48			
LM End	1.60	Issue Type +	Ma	Location *	WS				
Category	Earthen Levee				GPS Latitude/Longitude				
				Start		End			
Item	Vegetatio	egetation			17 °	38.277103	0		
пеш				-121.6009	40 °	-121.600643	0		
DWR ID	DWR_RD0	349_03_s _ 201	19_48						
Comment Code									

V2 : Remove the wild growth other than native grasses from the levee slopes.

#### Inspector Comment

Remove brush and properly maintain vegetation within 20 feet of the waterside shoulder.

#### Photo 1 of 1: SP\_2020\_RD0349\_206\_48\_20200304\_00013.jpg



View looking upstream at thick wild growth within 20 feet of the waterside shoulder (Spring 2019).

\* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

\*\* Rating
A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

\* Issue Type
Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/10/2020 04/10/2020	David Julian

LM Start	1.85	Rating **	С	Issue No.		50	
LM End	1.85	Issue Type +	Ma	Location *	LS		
0-4	Earthen L	evee		GPS La	atitud	e/Longitude	
Category			Start		End		
Trim / Thin Trees			38.2805	83 °	38.280583 °		
item			-121.6005	73 °	-121.600573 °		
DWR ID	DWR_RD0349_03_s _ 2019_50						
		Comn	nent Cod	de			
T1 : Trim t	rees to at l	east five feet	above g	round level			
			_				
		Inspecto	or Comm	nent			

No Photos

Rating \*\* Issue No. LM Start 1.86 Μ 52 Location \* 2.25 Issue Type + Ма LS LM End Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 38.280787° 38.285373 Item -121.600630 ° -121.604736 ° DWR ID DWR\_RD0349\_03\_s \_ 2019\_52 Comment Code

No Photos

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

LM Start	2.23	Rating **	М	Issue No.	36				
LM End	2.23	Issue Type +	Ма	Location *	LS				
Catagory	Category Earthen Levee					GPS Latitude/Longitude			
Calegory				Start		End			
Item	Trim / Thi	n Trees		38.2851	10°	38.285110	0		
пеш				-121.60454	43 °	-121.604543	0		
DWR ID	DWR_RD0	349_03_f _ 201	9_36						
	Comment Code								

T2: Thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

No Photos

\* Location LS : Land Side N/A: Not Applicable WS : Water Side

CR : Crown

A : Acceptable M : Minimally Acceptable

U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/10/2020 04/10/2020	David Julian

							_
LM Start	2.28	Rating **	М	Issue No.		37	_
LM End	2.28	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.2857	28 °	38.285728	0
пеш				-121.604867 °		-121.604867	0
DWR ID	DWR_RD0	349_03_f _ 201	9_37				
		Comn	nent Cod	de			
V4 : Elderl	berries are	blocking visit	oility and	flood fight	сара	ability.	
		Inspect	or Comm	nent			

No Photos

Rating \*\* С Issue No. LM Start 2.57 55 Location \* 2.57 Issue Type + Ма LS LM End Earthen Levee GPS Latitude/Longitude Category Start End Trim / Thin Trees 38.289782° 38.289782 ° Item -121.603298 ° -121.603298 DWR ID DWR\_RD0349\_03\_s \_ 2019\_55

**Comment Code** T1: Trim trees to at least five feet above ground level.

Inspector Comment

Remove broken limb from landside slope.

No Photos

LM Start	2.83	Rating **	М	Issue No.	35			
LM End	2.97	Issue Type +	Ма	Location *	WS			
Catagory Earthen Levee			GPS La	tituc	le/Longitude			
Calegory	Category				Start			
Item	Trim / Thi	n Trees		38.29340	)3 °	38.295376	0	
item				-121.6040°	13 °	-121.604726	0	
DWR ID	DWR ID DWR_RD0349_03_s _ 2018_35							
	Comment Code							

T1: Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

\* Location LS : Land Side WS : Water Side

CR : Crown

N/A: Not Applicable

A : Acceptable M : Minimally Acceptable

U : Unacceptable

C : Corrected

N : Not Inspected/Rated A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 0349 Sutter Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/10/2020 04/10/2020	David Julian

LM Start	4.19	Rating **	U	Issue No.		102	
LM End	4.19	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory				Start		End	
Item	Encroach	ments		38.3104	90°	38.310490 °	
пеш				-121.5972	65 °	-121.597265 °	
DWR ID DWR_RD0349_03_f _ 2018_102							
		Comn	nent Cod	de			
TR : Tree	or limb						
		Inspecto	or Comm	nent			
Remove tr	Remove tree from the landside slope.						
•							



View of tree on the landside slope (November 2018).

LM Start	4.20	Rating **	С	Issue No.		78		
LM End	4.20	Issue Type +	Ma	Location *		LS		
Catagonia Earthen Levee				GPS La	atitud	le/Longitude		
Calegory	Category					End		
Item	Trim / Thin Trees			38.3105	28 °	38.310528 °		
пеш				-121.5971	80°	-121.597180°		
DWR ID	WR ID DWR_RD0349_03_f _ 2014_78							
	Comment Code							
T4: Trim t	rees over i	roadway to at	least 12	feet above	gro	und level.		

Inspector Comment

Remove dead trees from levee section.

No	Pł	not	n9
INO	ГΙ	IUI	.US

LM Start	4.52	Rating **	М	Issue No.	77		_	
LM End	4.52	Issue Type +	Ma	Location *	LS			
Cotagonia Earthen Levee			GPS La	atitud	e/Longitude			
Category	Category			Start		End		
Item	Trim / Thi	n Trees		38.3133	17 °	38.313317	0	
пеш				-121.5926	08 °	-121.592608	0	
DWR ID	349_03_s _ 201							
	Comment Code							

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W: Acceptable but Monitor & Maintain	En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/10/2020 04/10/2020	David Julian

LM Start	4.56	Rating **	A/W	Issue No.		115	
LM End	4.68	Issue Type +	Ma	Location *		WS	
Supplemental Supplemental			GPS La	atitud	e/Longitude		
Calegory	Category			Start		End	
Item	2017 USA	CE Erosion S	Survey	38.3138	36 °	38.315407 °	
item				-121.5922	59 °	-121.591433 °	
DWR ID DWR_RD0349_03_f _ 2018_115						·	
Comment Code							

#### Inspector Comment

2017 Site ID: STR 26.5 L

Status: Eroding

2017 Field Notes: There appears soil under geotech fabric that appears to be failing but hard to tell.

Site History: 2002 - Original rock over geotextile is sliding off and the end is coming unraveled. 2003 - Some minor new erosion on the downstream end. 2004 - Site has gotten worse. Underlined geofabric is exposed. 2005 - Still looks bad with exposed geotextile fabric. 2006 - Still have some new unraveling and exposed fabric. Site lengthened upstream. 2009 - Minimal new erosion. 2010 - geotextile fabric placed since last year, possible flood fight. 2012 - Exposed geotech style fabric, assume rock on top slid off. 2015 - Erosion pockets covered with plastic



USACE 2013 Photo #1

LM Start	4.65 Rating ** U			Issue No.		60
LM End	5.57	Issue Type +	Ma	Location *		CR
Catagoria Earthen Levee				GPS La	atitud	e/Longitude
Category						End
Item	Vegetatio	n		38.3149	40 °	38.325943 °
пеш					12 °	-121.584857 °
DWR ID DWR_RD0349_03_s _ 2019_60						
		Comn	nent Coc	le .		

V9: Keep the crown roadway free of vegetation.

Inspector Comment



View looking upstream at vegetation on the crown (Spring 2020).

CR : Crown

Acceptable Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 0349 Sutter Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/10/2020 04/10/2020	David Julian

LM Start	4.94	Rating **	U	Issue No.		57		
LM End	6.30	Issue Type +	Ma	Location *		LS		
Catagory	Earthen L	evee		GPS La	atitud	le/Longitude		
Category			Start		End			
ltem Vegetation				38.3187	65 °	38.329186 °		
				-121.589590 °		-121.579472 °		
DWR ID DWR_RD0349_03_s _ 2020_57								
		Comn	nent Cod	de				
V1 : Control annual grass and weeds on the levee slopes and easements.								
		Inspecto	or Comm	nent				



View looking upstream at annual vegetation on the landside slope (Spring 2020).

LM Start	4.94	Rating **	М	Issue No.		54		
LM End	6.30	Issue Type +	Ма	Location *		WS		
Category	evee	GPS La	atitud	e/Longitude				
Category				Start		End		
Item	n	38.3187	'66 °	38.329187 °				
item			-121.5895	94°	-121.579471 °			
DWR ID DWR_RD0349_03_s _ 2020_54								
Comment Code								
V1 : Control annual grass and weeds on the levee slopes and easements.								
		Inspecto	or Comm	nent				

No Photos

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/10/2020 04/10/2020	David Julian

LM Start	5.06	Rating **	М	Issue No.		59		
LM End	5.17	Issue Type +	Ma	Location *	WS			
Category				GPS Latitude/Longitude				
				Start		End		
Itom	2017 USA	2017 USACE Erosion Survey			00 °	38.322216 °		
Item				-121.58988	32 °	-121.590101 °		
DWR ID	DWR_RD0349_03_f _ 2018_59							
	Comment Code							

No Photos

Inspector Comment

2017 Site ID: STR 26.9 R

Status: Eroding

2017 Field Notes: new erosion at toe. new erosion pocket at upstream

end.

Site History: 2015 - Large Tree popout and tall vertical sections into the

levee slope.

LM Start	5.10	Rating **	С	Issue No.		61		
LM End	5.22	Issue Type +	Ma	Location *	LS			
Category	Earthen L	evee	GPS Latitude/Longitude					
Category		Start		End				
Encroachments ltem			38.32113	30 °	38.322715 °			
пеш	item			-121.5896	78 °	-121.589395 °		
DWR ID	DWR_RD0	349_03_s _ 201	19_61					
Comment Code								
TR : Tree	or limb							

Inspector Comment

Remove fallen tree from the landside slope.

No	<b>Photos</b>
----	---------------

Rating \*\* U Issue No. 5.20 63 LM Start 5.20 Issue Type + Ма Location \* LS LM End Earthen Levee GPS Latitude/Longitude Category End Start Vegetation 38.322562 ° 38.322562 ° Item -121.589618 -121.589618 DWR ID DWR\_RD0349\_03\_s \_ 2019\_63

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

\* Location

LS : Land Side N/A: Not Applicable

WS : Water Side CR : Crown

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 0349 Sutter Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/10/2020 04/10/2020	David Julian

LM Start	5.45	Rating **	A/W	Issue No.		82		
LM End	5.45	Issue Type +	Ма	Location *		LS		
Category Earthen Levee				GPS La	atitud	e/Longitude		
Category				Start		End		
Vegetation				38.3243	15 °	38.324315 °		
пеш		-121.585777 °		-121.585777 °				
DWR ID DWR_RD0349_03_f _ 2019_82								
	Comment Code							
V4 : Elderl	berries are	blocking visit	oility and	flood fight	сара	bility.		
Inspector Comment								

No Photos

LM Start	5.48	Rating **	U	Issue No.		83		
LM End	5.48	Issue Type +	Ma	Location *		LS		
Category Earthen Levee			GPS Latitude/Longitude					
Category				Start		End		
Item	Vegetatio	38.32466	62 °	38.324662 °				
item				-121.58550	)3 °	-121.585503 °		
DWR ID	DWR_RD0	349_03_f _ 201	9_83					
Comment Code								

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

LM Start	5.71	Rating **	М	Issue No.		95			
LM End	5.71	Issue Type +	Ма	Location *		LS			
Category	GPS La	titud	e/Longitude						
Calegory		Start		End					
Item	Encroachments			38.3278	28 °	38.327828 °			
item			-121.5849	60°	-121.584960 °				
DWR ID	DWR ID DWR_RD0349_03_f _ 2018_95								
		Comn	nent Cod	de					
TR : Tree	or limb								
Inspector Comment									
Remove de	own trees	from the lands	side slop	e.					



View of down trees on the landside slope (November 2018).

\* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

\*\* Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy

M: Minimally Acceptable C: C: Corrected Ob: Design & System Obsolescence

U: Unacceptable A/W: Acceptable but Monitor & Maintain

\*\* Rating

A: Acceptable M: N: Not Inspected/Rated Ma: Maintenance Deficiancy Ob: Design & System Obsolescence

En: Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 0349 Sutter Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/10/2020 04/10/2020	David Julian

LM Start	5.82	Rating **	М	Issue No.	85		_
LM End	5.82	Issue Type +	Ma	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Vegetation			38.329337 °		38.329337	0
				-121.585093 °		-121.585093	0
DWR ID	DWR ID DWR_RD0349_03_f _ 2019_85						
Comment Code							
V4 : Elderberries are blocking visibility and flood fight capability.							
Inspector Comment							

No Photos

LM Start 5.95 Rating \*\* Issue No. Μ 86 Issue Type + Location \* LS 5.95 Ма LM End Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 38.331062° 38.331062° Item -121.584233 ° -121.584233 ° DWR ID DWR\_RD0349\_03\_f \_ 2019\_86 Comment Code

No Photos

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

LM Start	6.21	Rating **	М	Issue No.	89		
LM End	6.21	Issue Type +	Ma	Location *	CR		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Crown Surface / Depressions / Rutting			38.330172 °		38.330172 °	
				-121.5803	82 °	-121.580382 °	
DWR ID DWR_RD0349_03_f _ 2019_89							
Comment Code							
C2 : Repair depressions or ruts in the crown or slope.							
Inspector Comment							

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2020

## **Reclamation District No. 0349 Sutter Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	04/10/2020 04/10/2020	David Julian